

Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work: Improvements to drains at LBS Nagara and surrounding area in ward no:05
Yelahanka New Town Sub Division

						Estimate Cost		20.00 Lakhs
Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Earth work excavation by manual means for drains, canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such similar works in all kinds of soils, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenances required to complete the work. Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum.(Tipper 5.5 m3) (V-I.No 1.4, Page No-5 PWD SR 2021-22) & (V-III Page No.3, Item No.1.1 A of PWD SR 2021-22)								
Basic Rate	186.00							
Loading And Unloading	118.00							
Sub Total	304.00							
Area Weightage 10%	30.40							
Total Rate	334.40							
RCC Drain								
LBS Nagara								
Anganavadi Kendra Beside Rd	1	83.00	1.00	1.00	83.00			
Culverts	2	6.00	1.50	1.00	18.00			
					101.00	Cum	334.40	33,774.40
Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates (V-1, P.No-15, I No-2.1.3 of PWD SR 2021-22)(Issue rate on 07-07-22)								
Basic Rate	5554.00							
Area Weightage 10%	555.40							
Total Rate	6109.40							
RCC Drain								
LBS Nagara								
Anganavadi Kendra Beside Rd	1	83.00	1.00	0.15	12.45			
Culverts	2	6.00	1.50	0.15	2.70			
CC Road								
Anganavadi Kendra Beside Rd	1	64.00	4.00	0.15	38.40			
1st Cross Rd	1	58.00	3.20	0.15	27.84			
					81.39	Cum	6109.40	497244.07
3 Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.(V-III, I.No 13.1 Page No 99, PWD SR 2021-22) (Issue rate on 07-07-22)								
Basic Rate	92170.00							
Area Weightage 10%	9217.00							
Total Rate	101387.00							

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
RCC Drain, 60kg/Cum	1	24.28	60.00		1456.65			
For CC Culvert, 90kg/Cum	1	5.36	90.00		482.76			
					1939.41			
					1.94	Tn	101387.00	196630.96
Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necessary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates (V-1,P.No.17, I.No.2.4.2 of PWD SR 2021-22) Appendix I, V-I P.No-115)(Issue rate on 07-07-22)								
Basic Rate	5968.00							
5% Centring	298.40							
Sub Total	6266.40							
Area Weightage 10%	626.64							
Total Rate	6893.04							
RCC Drain Rft								
LBS Nagara								
Anganavadi Kendra Beside Rd	1	83.00	0.75	0.15	9.34			
RCC Drain Wall								
LBS Nagara								
Anganavadi Kendra Beside Rd	2	83.00	0.15	0.60	14.94			
					24.28			
Culvert Raft	2	6.00	1.20	0.20	2.88			
CulvertWall	4	6.00	0.23	0.45	2.48			
					5.36			
					29.64	Cum	6893.04	204320.05
Providing and fixing precast reinforced cement concrete covering slabs of 10Cm thick made of M25 with OPC cement,@340kgs/cum with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine,mixed, Including providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work.(Exclusive of GST and Area Loading Charges)								
Data Rate	2072.00							
RCC Drain								
LBS Nagara								
Anganavadi Kendra Beside Rd	1	83.00	0.75		62.25			
					62.25	Sqm	2072.00	128982.00
Providing and fixing precast reinforced cement concrete covering slabs of 23Cm thick made of M25 with OPC cement,@340kgs/cum with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine,mixed, Including providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work.(Exclusive of GST and Area Loading Charges)								

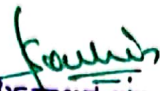
Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Basic Data Rate	5037.00							
RCC Culvert	2	6.00	1.20		14.40			
					14.40	Sqm	5037.00	72532.80
Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separatel (V-III Page No.10, Item No.2.19 of PWD SR 2021-22)								
Basic Rate	422.00							
Area Weightage 10%	42.20							
Total Rate	464.20							
CC Road								
Anganavadi Kendra Beside Rd	1	64.00	4.00	0.35	89.60			
1st Cross Rd	1	58.00	3.20	0.30	55.68			
					145.28			
Deduct 30% Voids/Damaged					43.58			
					101.70	Cum	464.20	47,207.28
Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.(V-III, P.No-138,I No-20.29, KPWD SR 2021-22).(Issue rate on 07-07-22)								
Basic Rate	6512.00							
Area Weightage 10%	651.20							
Total Rate	7163.20							
CC Road								
Anganavadi Kendra Beside Rd	1	64.00	4.00	0.15	38.40			
1st Cross Rd	1	58.00	3.20	0.15	27.84			
					66.24	Cum	7163.20	474490.37
Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km(V-III Page No.3, Item No.1.4A of PWD SR 2021-22)								
Basic Rate	12.00							
8KM Lead = 12*8	96.00							
Area Weightage 10%	9.60							
Total Rate	105.60							
Qty frm Item No-1		101.00	1.28		129.28			
Qty frm Item No-7		101.70	2.10		213.56			
					342.84	t.Km	105.60	36,204.07

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
Total Construction Cost								1691386.00
18% GST for Construction Cost								304449.48
Sub Total								1995835.48
Utility Shifting, Miscellaneous and Rounding off								4,164.52
GRAND TOTAL								2000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR, Bangalore circle for year 2021-2022, issue rates dated 07-07-2022 and Data Rates


Assistant Engineer
Ward No-05
BBMP Bangalore


ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ, ಯಲಹಂಕಾ
Asst. Executive Engineer,
ಯಲಹಂಕಾ
Yelahanka New Town Sub Division
BBMP Bangalore


Executive Engineer,
Yelahanka Division
BBMP Bangalore

Administrative Approval
Accorded For 20.00 Lakh
Head of AG P-3796
CER NO 85 Dt. 22/8/2022

ICE (INK)

TECHNICALLY SANCTIONED FOR Rs. 20.00 Lakh
Rupees Twenty lakh Only
Under P-3796
Zonal Public works.
Registered as CE () No. 9 9
Subject to conditions SI
enclosed memo EE () No. SI
Dt. 23/8/2022 Estn. SI
BBMP/EE/YM/K-0/TS/SI/22-23
Dated 23/8/2022 Rs. 20.00 Lakh

Executive Engineer